

# Service Manual

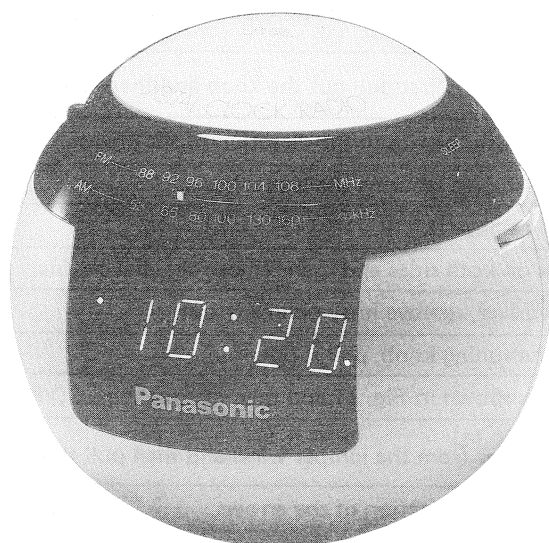
FM-AM  
Digital Clock Radio

Radio

RC-70

Color

(WT) .....White Type



## Area

Color	Area
(WT)	[Z].....All European areas except [ZE][ZF][ZG][Zi].
(WT)	[ZE].....United Kingdom.
(WT)	[ZF].....France.
(WT)	[ZG].....F.R Germany.
(WT)	[Zi].....Italy and Finland.

## ■ SPECIFICATIONS

Frequency Range:	FM; 87.5 ~ 108MHz AM; 520 ~ 1610kHz
Intermediate Frequency:	FM; 10.7MHz AM; 455kHz
Sensitivity:	FM; 8 $\mu$ V/50mW output AM; 100 $\mu$ V/m/50mW output
Power Requirement:	AC; [Z][ZF][ZG][Zi]....AC: 220V, 50Hz [ZE]....AC: 240V, 50Hz Battery; 9V, 006P(6F22/6LR61) for Battery Back-up
Power Output:	350mW ...RMS(Max.)
Power Consumption:	6W(AC Only)
Speaker:	6.5cm PM Dynamic Speaker (16 $\Omega$ )
Dimensions:	138(W)x127(H)x138(D)mm
Weight:	710g Without battery

Design and specifications are subject to change without notice.

Matsushita Electric Industrial Co., Ltd.  
Central P.O. Box 288, Osaka 530-91, Japan

# Panasonic

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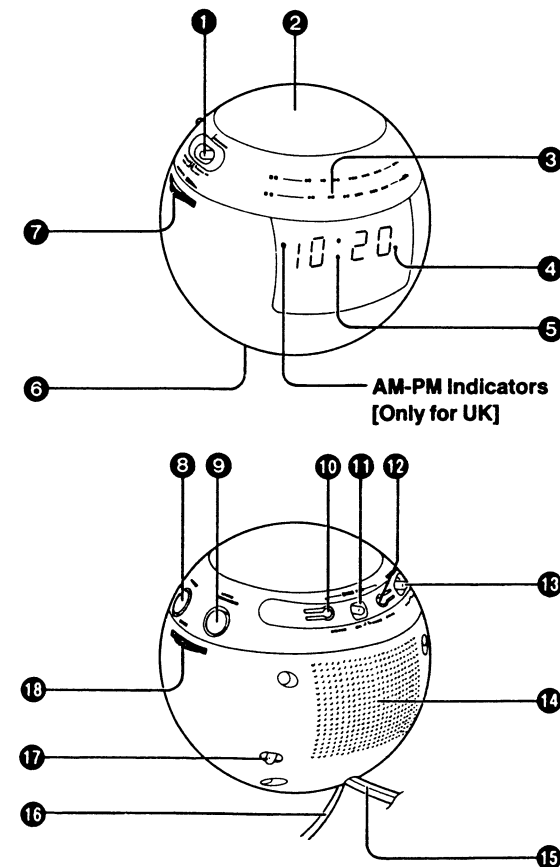
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## RC-70

## LOCATION OF CONTROLS



- 1 Mode Selector (SELECTOR)
- 2 Doze/Sleep Cancel Button (DOZE/SLEEP CANCEL)
- 3 Radio On Indicator
- 4 Alarm Indicator (AL)
- 5 Clock Display
- 6 Back-up Battery Compartment
- 7 Volume Control (VOLUME)
- 8 Alarm Display/Cancel Button (ALARM DISP/CANCEL)
- 9 Sleep Button (SLEEP)
- 10 Minute Set Button (MINUTE)
- 11 Time Set Selector (TIME SET)
- 12 Hour Set Button (HOUR)
- 13 Brightness Selector (BRIGHTNESS)
- 14 Speaker
- 15 AC Power Cord
- 16 FM Antenna Cord
- 17 Band Selector (BAND)
- 18 Tuning Control (TUNE)

## FOR YOUR SAFETY

### WARNING:

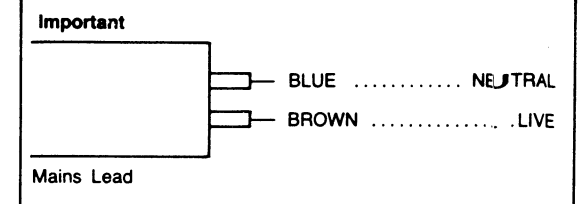
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

### Do not Remove Outer Cover.

To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

### AC Mains Lead Connection (For UK)

The wires in the mains lead of this apparatus are coloured in accordance with the following code.



As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

The Name Plate of this set is located on the bottom.

## PRECAUTIONS

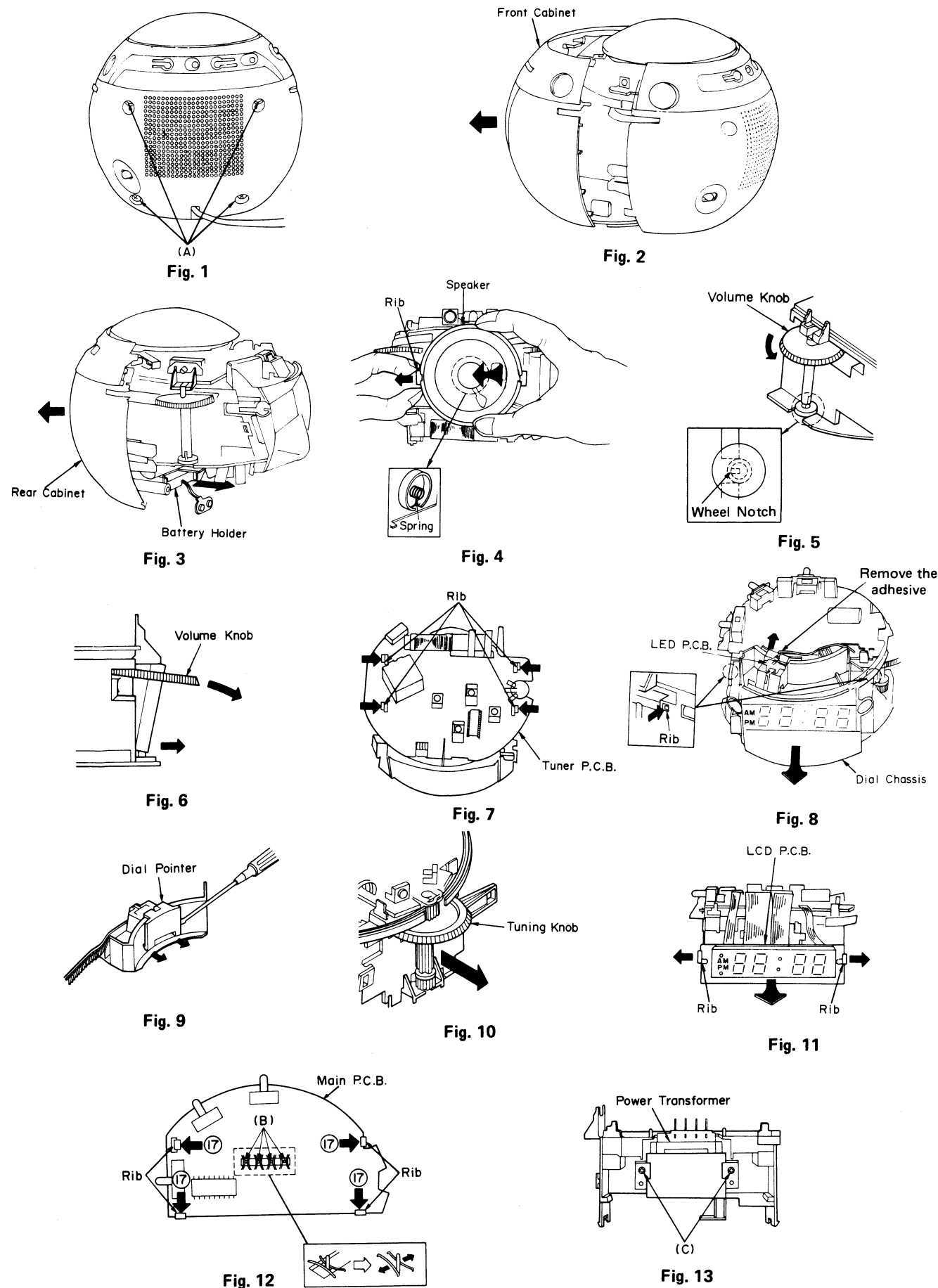
For your safety and to prevent damage to the set:

- Do not connect the set to an AC outlet other than one supplying the specified voltage.
- Avoid cuts, scratches, or poor connections in the AC Power Cord which may result in possible fire or electric shock hazard. Also excessive bending, pulling, or splicing of the cord should be avoided.
- Do not unplug the AC Power Cord by pulling on the cord. To do so may cause premature failure or shock hazard.

## HELPFUL HINTS

- Keep the set away from heating devices and electrical noise generating devices such as fluorescent lamps and motors.
- The set should be kept free from dust, moisture, and vibration, and should not be exposed to direct sunlight.
- Do not clean the plastic cabinet with benzine or thinner. Clean it with a mild solution of soap and water.
- Avoid spray-type insecticides. Some insecticides contain chemicals that could cause cabinet deformation.

# DISASSEMBLY INSTRUCTIONS (Arrows show the direction to remove)

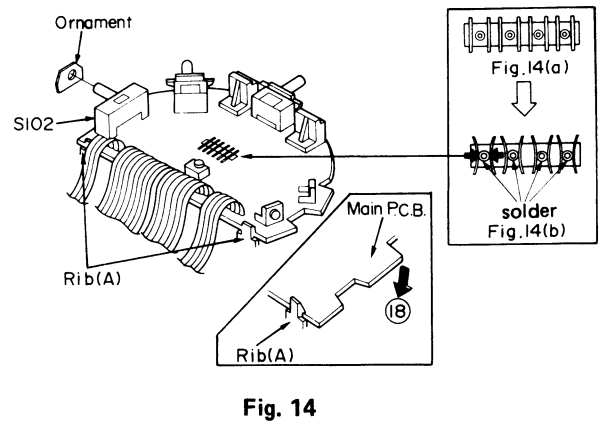


Step	Shown in Fig. —	To remove —	
①	1	Front Cabinet	Remove screws A . . . . . (3 x 60) mm x 4
②	2		Then remove the cabinet from the unit.
③	3	Rear Cabinet	First remove the battery holder.
④	4		Then remove the cabinet from the unit.
⑤	5	Speaker (*1)	To remove it, first push it and then pull the rib.
⑥	6	Volume knob	Turn the knob counterclockwise and then position the wheel with its notch.
⑦	7		To remove the knob, first pull out the knob and then the shaft.
⑧	8	Tuner P.C.B.	To remove it, push the ribs in the direction of the arrows.
⑨	8	LED P.C.B.	Remove the adhesive securing the lead wire.
⑩	9	Dial chassis	Pull it out to remove it.
⑪	10	Dial Pointer	Push the ribs on both sides and then remove the dial chassis.
⑫	11	Tuning Knob	With a screwdriver, remove it by pulling it out.
⑬	12	LCD P.C.B.	To remove the tuning knob, pull it out.
⑭	13	Main P.C.B.	Pull the ribs as shown in Fig. 11 and then remove the LCD P.C.B.
⑮	14	Power Transformer	Remove the solder from the jumper wires and then pull them apart.
⑯	15		Push the ribs in the direction of the arrows.
⑰	16		Remove screws C . . . . . (3 x 12) mm x 2

(\*1) Remove the speaker as shown in Fig. 4 at this time, be careful not to lose the spring.

## How to Replace the Main P.C.B.

1. Install the ornament in switch S102.
2. Secure the main board in place with rib A and then push the main board downward.
3. Then arrange the jumper wires on the main board and the wires from power transformer as shown in Fig. 14 (a).
4. With a pair of pliers, bend the jumper wires on the main board as shown in Fig.14 (b). and then solder them.



## ■ PLACEMENT OF WIRING ASSEMBLING THE BATTERY LEAD AND LCD P.C.B.

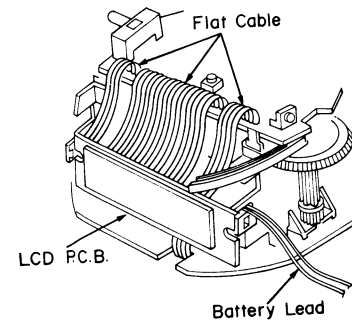


Fig. 15

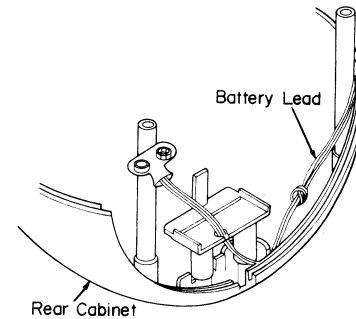
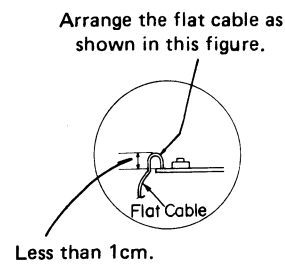


Fig. 16

## ■ PLACEMENT OF WIRING ASSEMBLING THE AC CORD

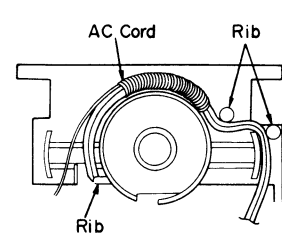


Fig. 17

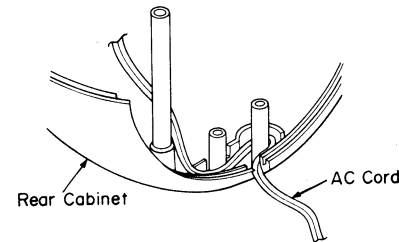


Fig. 18

## ■ PLACEMENT OF WIRING ASSEMBLING THE SPEAKER LEAD

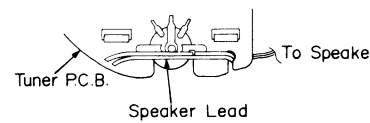


Fig. 19

## ■ 0 (ZERO) POINT ADJUSTMENT

1. Turn the tuning knob fully clockwise.
2. Install the dial pointer after properly aligning it with its groove in the dial chassis.
3. Install the dial chassis in the unit.
4. Insert the LED board in the dial pointer.
5. Secure the lead wires on the LED board with the adhesive (see Fig. 21.)

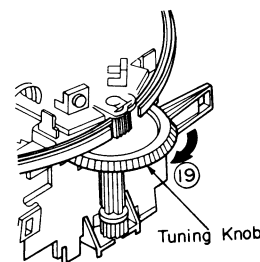


Fig. 20

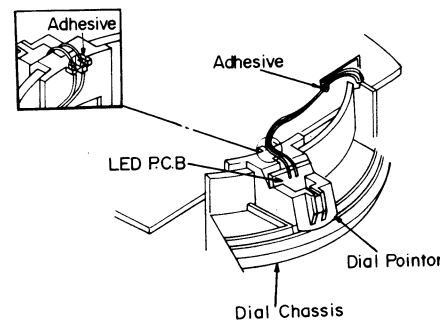


Fig. 21

# MEASUREMENTS AND ADJUSTMENTS

## ■ ALIGNMENT INSTRUCTION

### READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set band switch to AM or FM.
3. Set mode selector to RADIO ON.
4. Output of signal generator should not be higher than necessary to obtain an output reading.

## ■ AM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	ELECTRONIC VOLTMETER or OSCILLOSCOPE	ADJUSTMENT (Refer to Fig 1)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	[Z][ZF][ZG][Zi] .....455kHz [ZE]...470 kHz 30% Mod. at 400Hz	Point of non-interference. (on/about 600 kHz)	Electronic voltmeter across voice coil.	<b>T3</b> (AM 1st) <b>T4</b> (AM 2nd)	Adjust for maximum output.

## ■ AM-RF ALIGNMENT

Fashion a loop of several turns of wire and radiate signal into loop of receiver.	[Z][ZE][ZF][ZG] .....511kHz [Zi].....516kHz (f min)	Tuning capacitor fully closed.	Electronic voltmeter across voice coil.	<b>L3</b> (AM OSC Coil)	Adjust for maximum output.
"	[Z][ZE][ZF][ZG] .....1,650kHz [Zi].....1,636kHz (f max)	Tuning capacitor fully open.	"	<b>CT1-3</b> (AM OSC Trimmer)	"
"	550kHz	Tune to signal	"	(*) <b>L4</b> (AM ANT Coil)	Adjust for maximum output. Adjust L4 by moving coil along ferrite core.
"	1,500kHz	"	"	<b>CT1-4</b> (AM ANT Trimmer)	Adjust for maximum output.

(\*) Fix antenna coil with wax after completing alignment.

## ■ FM-IF ALIGNMENT

Connect to test point <b>TP1</b> through ceramic capacitor (0.001μF). Negative side to test point <b>TP2</b> .	10.7MHz (Sweep)	Point of non-interference (on/about 90MHz)	Connect vert. amp. scope to test point <b>TP3</b> . Negative side to test point <b>TP3</b> .	<b>T1</b> (FM 1st)	Wave form is shown in Fig.3
"	"	"	"	<b>T2</b> (FM 2nd)	Wave form is shown in Fig.4

## ■ FM-RF ALIGNMENT

Connect to test point <b>TP1</b> through FM dummy antenna. Negative side to test point <b>TP2</b> .	[Z][ZE][ZF] .....86.2MHz [ZG][Zi] .....87.35MHz (f min)	Variable capacitor fully closed.	Electronic voltmeter across voice coil	<b>L2</b> (FM OSC coil)	(*)2) Adjust for maximum output.
"	[Z][ZE][ZF] .....109.2MHz [ZG][Zi] .....108.25MHz (f max)	Variable capacitor fully open.	"	<b>CT1-1</b> (FM OSC Trimmer)	"
"	106MHz	Tune to signal	"	<b>CT1-2</b> (FM ANT Trimmer)	"

(\*)2) Three output responses will be present; proper tuning is the center frequency.

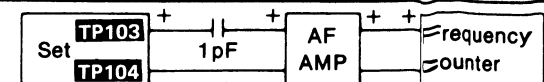
## ■ BATTERY BACK-UP CIRCUIT ALIGNMENT

DC POWER SUPPLY		FREQUENCY COUNTER	ADJUSTMENT (Refer to Fig.2)	REMARKS
CONNECTIONS	VOLTAGE			
(+) Side... <b>TP103</b> (-) Side... <b>TP104</b>	9 Volts	(+) Side ..... <b>TP101</b> (-) Side ..... <b>TP102</b>	VR101 (Semi-fixed)	● Adjust VR101 for 900±15 Hz on frequency counter reading. (*3,4,5)

\*3. Connect 1pF capacitor to the test point **TP101**.

\*4. Amplify its out signal by using the AF Amp.

\*5. Measure the frequency.

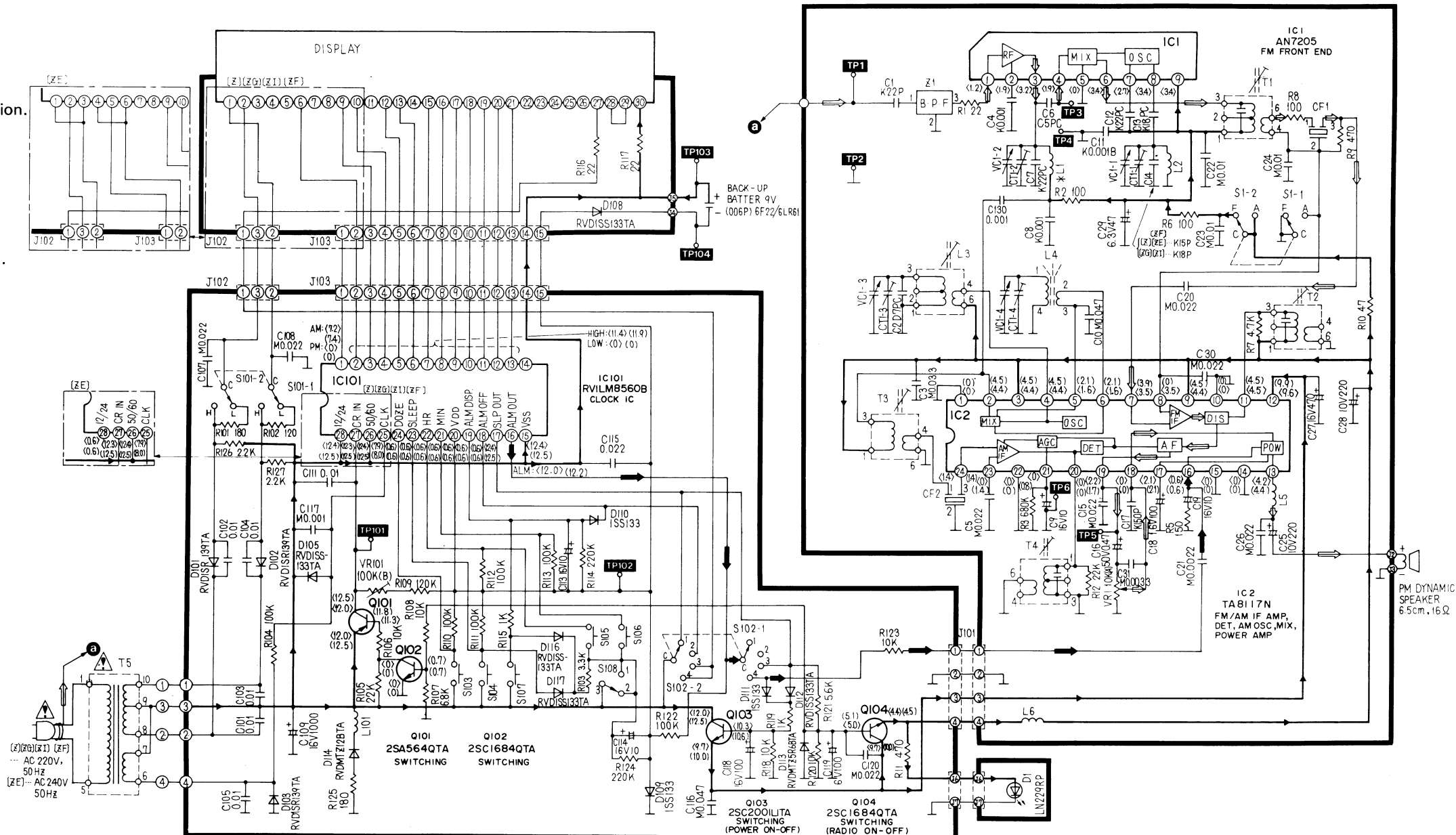


# SCHEMATIC DIAGRAM (See pages 11 and 12 for Parts Numbers)

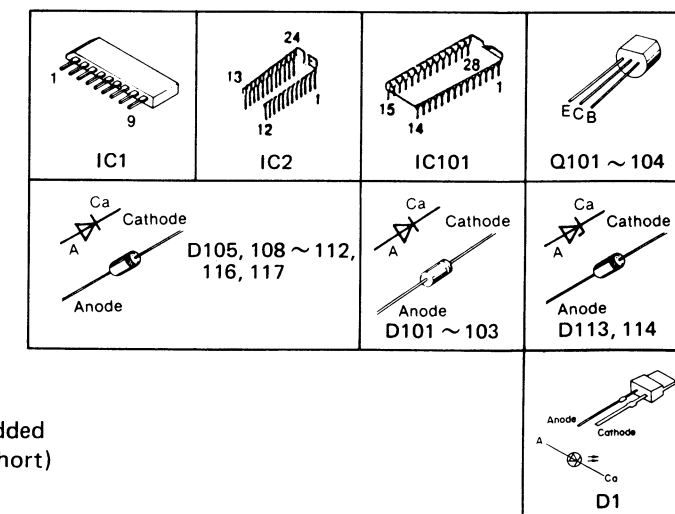
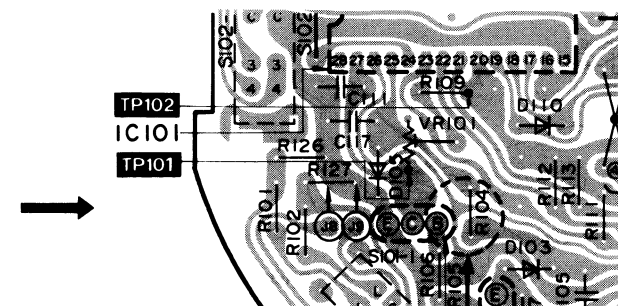
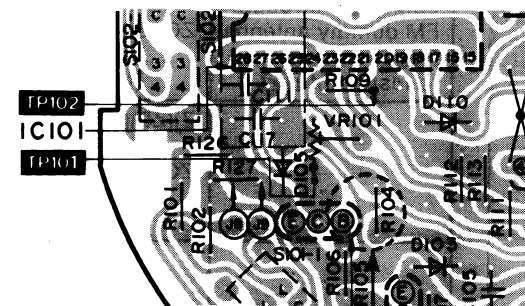
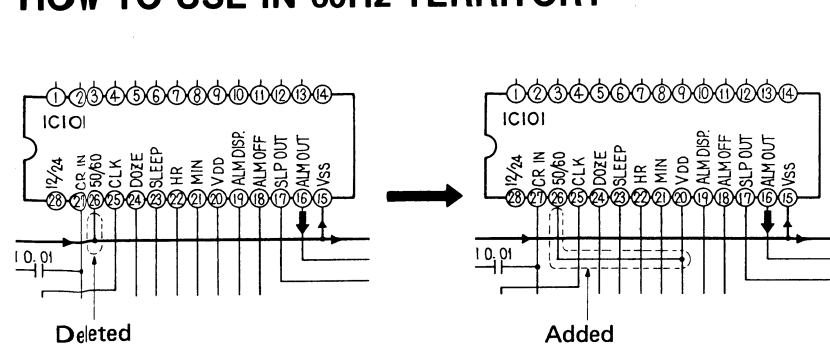
## Notes:

- S1-1, S1-2 : Band select switch in "FM" position.  
(F ... FM, A ... AM)
- S101-1, S101-2 : Brightness switch in "LOW" position.  
(L ... LOW, H ... HIGH)
- S102-1, S102-2 : Selector switch in "RADIO ON" position.  
(1 ... RADIO ON, 2 ... OFF, 3 ...  
ALARM RADIO, 4 ... ALARM  
BUZZER)
- S103 : Doze switch in "OFF" position.
- S104 : Sleep switch in "OFF" position.
- S105 : Hour set switch in "OFF" position.
- S106 : Minute set switch in "OFF" position.
- S107 : Alarm Disp switch in "OFF" position.
- S108 : Time set switch in "LOCK" position.
- \* L1 is a coil formed on the P.C.B. and is thus not found  
on the replacement part list.
- The mark (▼) shows test point. e.g. TP1 = test point 1.  
DC voltage measurement are taken with electronics  
Voltmeter from negative line.  
< > ..... FM position. ( ) ..... AM position.  
+ ⊕ Voltage Line  
⇒ Radio (FM) signal Line.

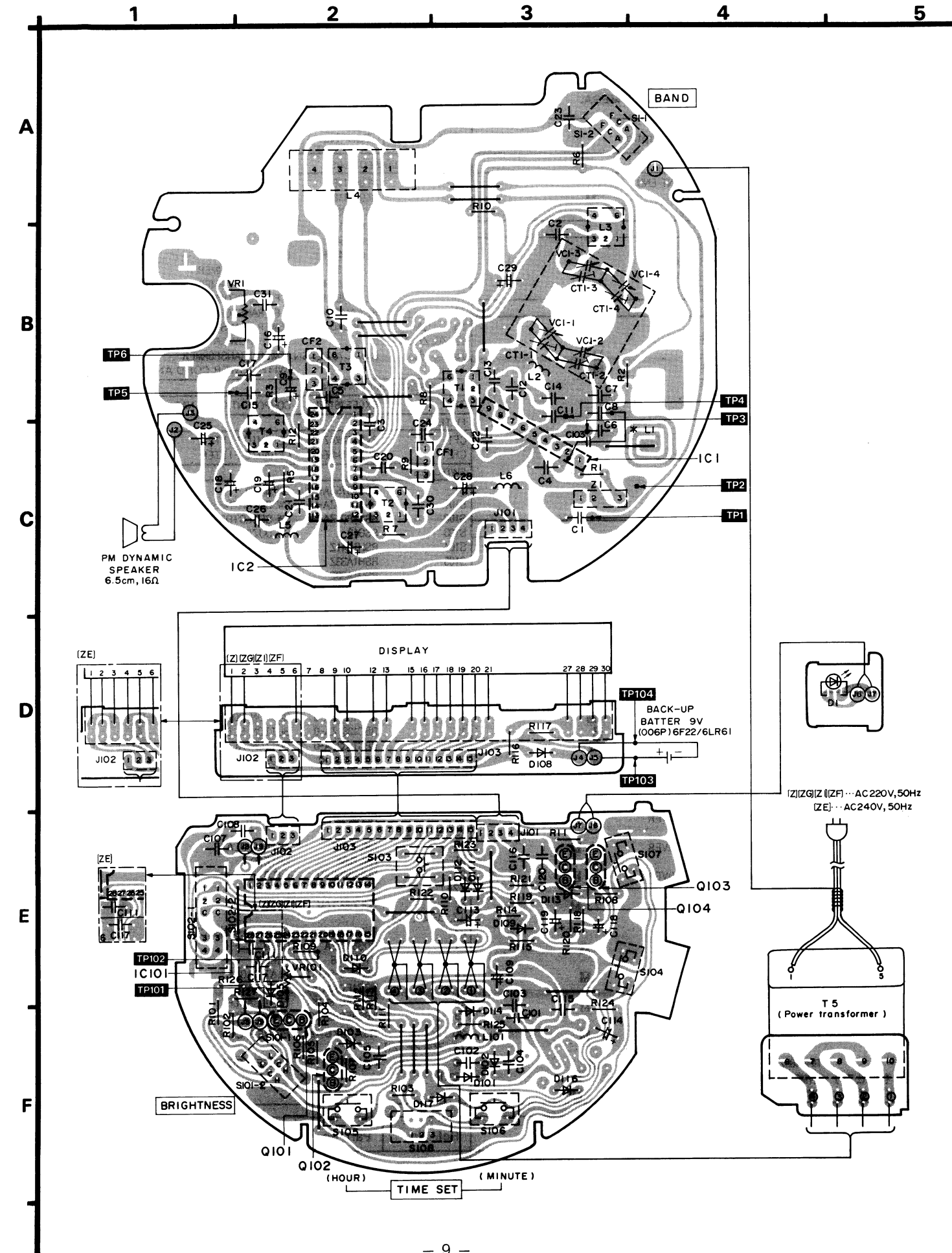
**Important safety notice**  
Components identified by Δ mark have special  
characteristics important for safety.  
When replacing any of these components, use only  
manufacturer's specified parts.



## HOW TO USE IN 60HZ TERRITORY

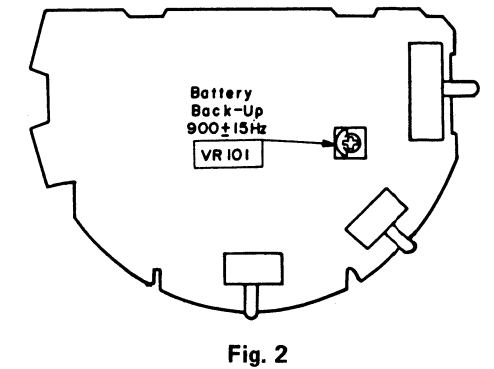
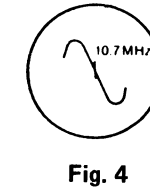
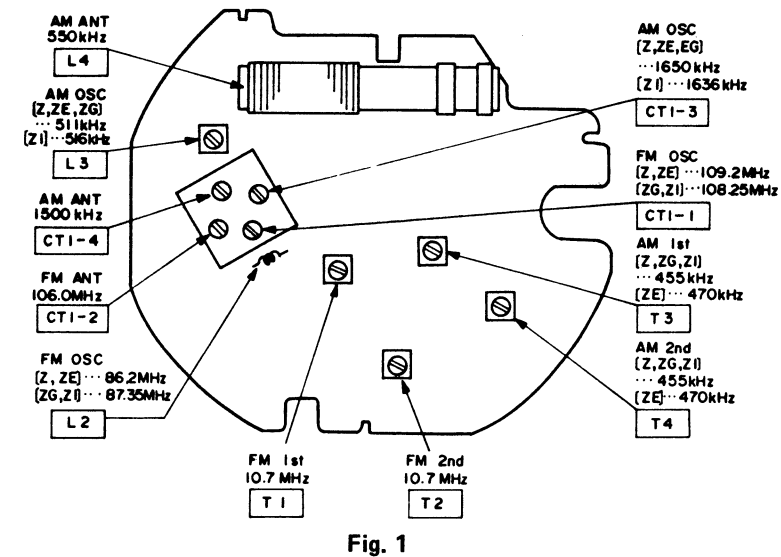


# CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

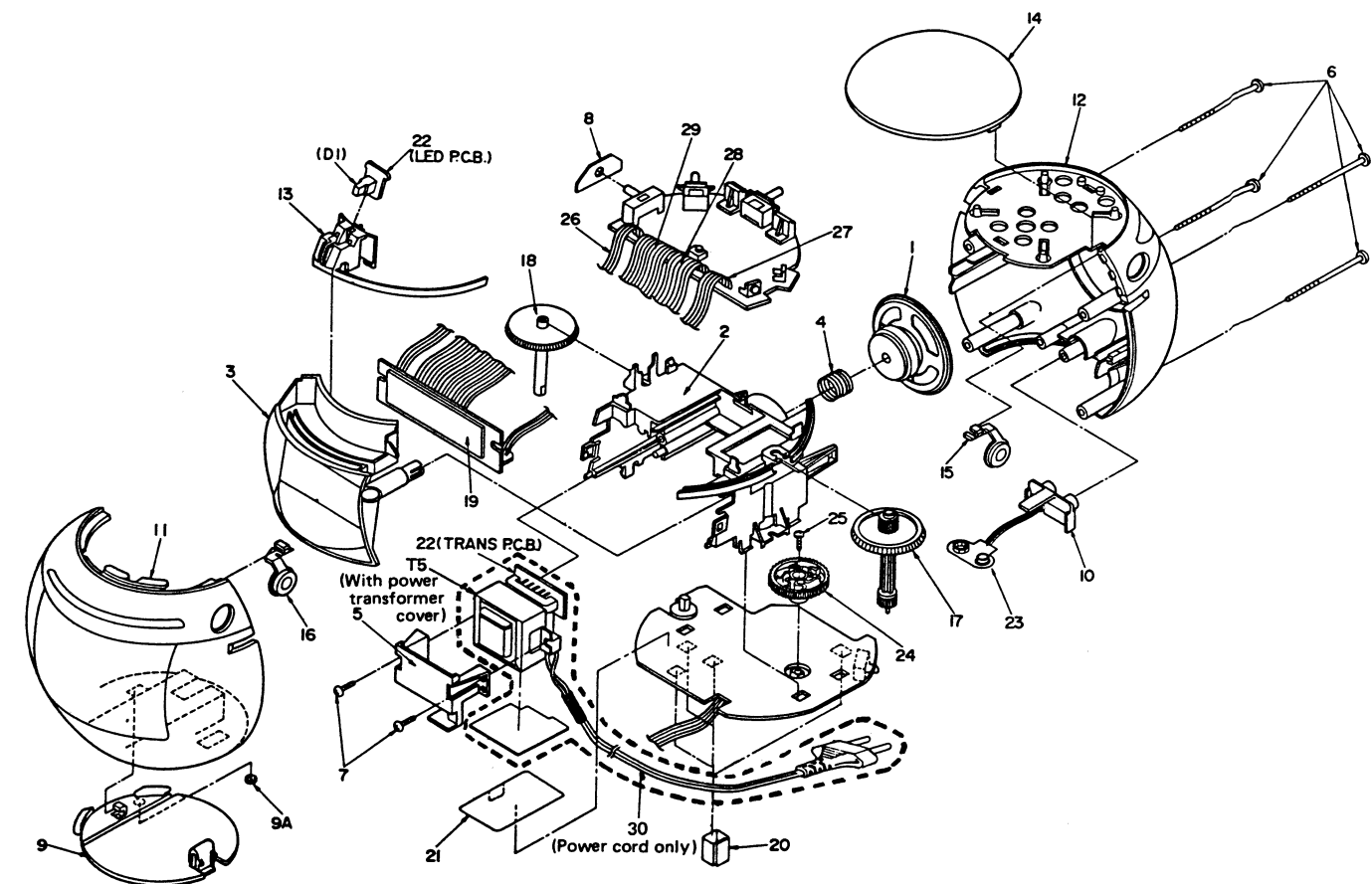


## ALIGNMENT POINTS

Please refer to Circuit Board and Wiring Connection Diagram for test point location.



## CABINET PARTS LOCATION (See page 12 for Parts Numbers)





## RESISTORS &amp; CAPACITORS

**Notes :** \* Important safety notice :  
Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.  
\* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)  
Parts without these indications can be used for all areas.

## Numbering System For Resistors

Example:

ERD	25	F	J	102
Type	Wattage (1/4W)	Shape	Tolerance	Value (1K $\Omega$ )
ERX	2	AN	J	471
Type	Wattage (2W)	Shape	Tolerance	Value (470 $\Omega$ )

## Numbering System For Capacitors

Example:

ECKD	1H	102	Z	F
Type	Voltage (50V)	Value (0.001 $\mu$ F)	Tolerance	Unique
ECEA	50	M		330
Type	Voltage (50V)	Characteristics		Value (33 $\mu$ F)

● Capacity values are in microfarads ( $\mu$ F) unless specified otherwise, P=Pico-farads (pF) F=Farads (F).  
● Resistance values are in ohms ( $\Omega$ ), unless specified otherwise, 1K=1,000 $\Omega$ , 1M=1,000k $\Omega$

Resistor Type	Wattage	Tolerance
ERD : Carbon	10 : 1/8W 12 : 1/2W	J : $\pm 5\%$
ERG : Metal Oxide	14 : 1/4W 25 : 1/4W	F : $\pm 1\%$
ERQ : Fuse Type Metal	1A : 1W 18 : 1/8W	G : $\pm 2\%$
ERX : Metal Film	S2 : 1/4W S1 : 1/2W	J : $\pm 5\%$
ERD L : Carbon (chip)	2F : 1/4W 50 : 1/2W	K : $\pm 10\%$
ERO K : Metal Film (chip)	2A : 2W 3A : 3W	M : $\pm 20\%$
ERC : Solid	6G : 1/10W 8G : 1/8W	
ERF : Incombustible Box-Shaped		
ERM : Wire-Wound		
RRJ : Chip Resistor		
ERJ : Chip Resistor		

Capacitor Type	Voltage	Tolerance
ECE : Electrolytic	0J : 6.3V 1A : 10V	K : $\pm 10\%$
ECCD : Ceramic	1C : 16V 1E : 25V	M : $\pm 20\%$
ECKD : Ceramic Capacitor	1H : 50V 1V : 35V	Z : $\pm 80\%$
ECQM : Polyester	50 : 50V 05 : 50V	-20
ECQP : Polypropylene	2H : 500V 2A : 100V	J : $\pm 5\%$
ECG : Ceramic	1 : 100V 1J : 63V	G : $\pm 2\%$
ECEA N : Non Polar Electrolytic	KC : 400V AC	F : $\pm 1\%$
OCU : Ceramic (Chip Type)	KC : 125V AC	C : $\pm 0.25$ pF
ECUX : Ceramic (Chip Type)	(UL)	D : $\pm 0.5$ pF
ECF : Semiconductor		
EECW : Liquid electrolyte double layer capacitor		

Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
RESISTORS(VALUE, WATTAGE)			R118	ERDS2TJ103	10K 1/4	C19	ECEA1CU100	10 16
R1	ERDS2TJ220T	22 1/4	R119	ERDS2TJ102	1K 1/4	C20	ECFT1C223MD	0.022 16
R2	ERDS2TJ101	100 1/4	R120	ERDS2TJ103	10K 1/4	C21	ECRV1H222MD	0.0022 50
R3	ERDS2TJ684	680K 1/4	R121	ERDS2TJ562	5.6K 1/4	C22	ECFT1C103MD	0.01 16
R5	ERDS2TJ151	150 1/4	R122	ERDS2TJ104	100K 1/4	C23	ECFT1C103MD	0.01 16
R6	ERDS2TJ101	100 1/4	R123	ERDS2TJ103	10K 1/4	C24	ECFT1C103MD	0.01 16
R7	ERDS2TJ472	4.7K 1/4	R124	ERDS2TJ224	220K 1/4	C25	ECEA1AU221	220 10
R8	ERDS2TJ101	100 1/4	R125	ERG12ANJ181	180 1/2	C26	ECFT1C223MD	0.022 16
R9	ERDS2TJ471	470 1/4	R126	ERDS2TJ222	2.2K 1/4	C27	ECEA1CU471E	470 16
R10	ERDS2TJ470	47 1/4	R127	ERDS2TJ222	2.2K 1/4	C28	ECEA1AU221	220 10
R11	ERDS2TJ331	330 1/4	CAPACITORS(VALUE, VOLTAGE)			C29	ECEA1AU470	47 10
R12	ERDS2TJ223	22K 1/4	C1	ECCT1H220KC	22P 50	C30	ECFT1C223MD	0.022 16
R101	ERDS2TJ181	180 1/4	C2	ECCF1H070CC	7P 50	C31	ECKT1H332MD	0.0033 50
R102	ERDS2TJ121	120 1/4	C3	ECFT1C333MD	0.033 16	C101	ECKD1H103ZF	0.01 50
R103	ERDS2TJ332	3.3K 1/4	C4	ECKF1H102KB	0.001 50	C102	ECKD1H103ZF	0.01 50
R104	ERDS2TJ104	100K 1/4	C5	ECFT1C223MD	0.022 16	C103	ECKD1H103ZF	0.01 50
R105	ERDS2TJ223	22K 1/4	C6	ECCD1H050CC	5P 50	C104	ECKD1H103ZF	0.01 50
R106	ERDS2TJ103	10K 1/4	C7	ECCT1H180KC	18P 50	C105	ECKD1H103ZF	0.01 50
R107	ERDS2TJ682	6.8K 1/4	C8	ECKF1H102KB	0.001 50	C107	ECFT1C223MD	0.022 16
R108	ERDS2TJ103	10K 1/4	C9	ECEA1CU100	10 16	C108	ECFT1C223MD	0.022 16
R109	ERDS2TJ124	120K 1/4	C10	ECFV1E473MD	0.047 25	C109	ECEA1CS102	1000 16
R110	ERDS2TJ104	100K 1/4	C11	ECKF1H102KB	0.001 50	C111	ECQG1H103KZ	0.01 50
R111	ERDS2TJ104	100K 1/4	C12	ECCT1H220KC	22P 50	C113	ECEA1CU100	10 16
R112	ERDS2TJ104	100K 1/4	C13	ECCT1H180KC	18P 50	C114	ECEA1CU100	10 16
R113	ERDS2TJ104	100K 1/4	C14	ECCT1H150KC	15P 50	C115	ECKD1H223ZF	0.022 50
R114	ERDS2TJ224	220K 1/4	C15	ECFT1C223MD	0.022 16	C116	ECFV1E473MD	0.047 25
R115	ERDS2TJ102	1K 1/4	C16	ECEA50ZR47E	0.47 50	C117	ECKD1H102MD	0.001 50
R116	ERDS2TJ220T	22 1/4	C17	ECCT1H151K	150P 50	C118	ECEA1CU101	100 16
R117	ERDS2TJ220T	22 1/4	C18	ECEA1CU101	100 16	C119	ECEA0JU101B	100 6.3
						C120	ECFT1C223MD	0.022 16
						C130	ECRV1H102MD	0.001 50

## REPLACEMENT PARTS LIST

**Notes :** \* Important safety notice :  
Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.  
\* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)  
Parts without these indications can be used for all areas.  
\*  $\bar{M}$  Indicates parts that are supplied by MESA.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
INTEGRATED CIRCUITS			COILS AND TRANSFORMERS		
IC1	AN7205	I.C. FM FRONT END	L2	RL04Y116	OSCILLATOR COIL FM
IC2	RV1TA8117N	I.C. POWER	L3	RL02B119-M	OSCILLATOR COIL AM
IC101	RV1LM8560B	I.C. CLOCK	L4	RLF2C63	BAR ANTENNA
TRANSISTORS			L5	RLQZR101K	CHOKE COIL
Q101	2SA564Q	TRANSISTOR	L6	RLQY15G5	COIL
Q102	2SC1685-Q	TRANSISTOR	L101	RLQZL4R7K	CHOKE COIL
Q103	2SD261	TRANSISTOR	T1	RL14B153	I.F. TRANSFORMER
Q104	2SC1685-Q	TRANSISTOR	T2	RL14B556-M	I.F. TRANSFORMER
DIODES			T3	RL12B467-M	I.F. TRANSFORMER
D1	LN229RP	L.E.D.	T4	RL12B467-M	I.F. TRANSFORMER
D101	RVD1SR139TA	DIODE	T5	RWAC70ZKSN	POWER TRANSFORMER
D102	RVD1SR139TA	DIODE	(Z, ZG, ZF, ZI)		(WITH POWER CORD AND TRANS COVER)
D103	RVD1SR139TA	DIODE	T5	RWAC70ZEKSN	POWER TRANSFORMER
D105	RVD1SS133	DIODE	(ZE)		(WITH POWER CORD AND TRANS COVER)
D108	RVD1SS133	DIODE	COMPONENT COMBINATIONS		
D109	RVD1SS133	DIODE	Z1	EXCFF76108L	COMPONENT COMBINATION
D110	RVD1SS133	DIODE	FILTERS		
D111	RVD1SS133	DIODE	CF1	RVF107WAZ	CERAMIC FILTER
D112	RVD1SS133	DIODE	CF2	RVFSFU455B	CERAMIC FILTER
D113	RVDMTZ5R6B	DIODE	SWITCHES		
D114	RVDMTZ12B	DIODE	S1	RSS2B75ZA-H	SW. BAND
D116	RVD1SS133	DIODE	S101	RSS2B75ZA-H	SW. BRIGHTNESS
D117	RVD1SS133	DIODE	S102	RSS4B07ZA-H	SW. SELECTOR
VARIABLE RESISTORS			S103	SSG13	SW. DOZE
VR1	EVL5A851A14	V.R. VOLUME	S104	RSH1A41Z	SW. SLEEP
VR101	EVND4AA00B15	V.R. SEMI-FIXED	S105	RSH1A33Z	SW. HOUR
VARIABLE CAPACITORS			S106	RSH1A33Z	SW. MINUTE
VC1	RCV4LC2VK	VARICON	S107	RSH1A41Z	SW. ALARM
			S108	RSS2B75ZA-H	SW. ADJ/LOCK

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CABINET AND CHASSIS			12	RYFC70MKSNB	REAR CABINET
1	RAS65P13ZA-F	SPEAKER	13	RDP349ZA-0	DIAL POINTER
2	RUA847ZA20	CHASSIS	14	RBC1330ZA-0	BUTTON, DOZE
3	RUA848ZA-0	COVER	15	RBC1331ZA-0	BUTTON, SLEEP
4	RUQ110ZA	SPRING	16	RBC1332ZA-0	BUTTON, ALARM
5	RUV828ZA	COVER	17	RBT323ZA-0	KNOB, TUNE
6	XTN3+60GFN	SCREW	18	RBT324ZA-0	KNOB, VOLUME
7	XTV3+12G	SCREW	19	SL20422T	DISPLAY
8	RHP2122ZA	PLATE	(ZE)		
9	RYNC70ZEKSNB	BATTERY COVER	19	SL204230T	DISPLAY
(ZE)			(Z, ZG, ZF, ZI)		
9	RYNX70ZGKSNB	BATTERY COVER	20	RMCI028Z	SHIELD PLATE
(ZG)			21	RMCI228A	SHIELD
(ZI)			22	RUP2460XAU	P.C.B.
9	RYNC70ZIKSNB	BATTERY COVER	(ZE)		
(ZI)			22	RUP2460YAU	P.C.B.
(Z, ZF)			(Z, ZG, ZF, ZI)		
9A	RHG1SZA	FELT	23	RJB5009XA-1	BATTERY CONNECTOR
9B	RGT1368WA-8	NAME PLATE	24	RDG5889ZA	DRUM
(ZI)			25	XYN26+C6	SCREW
9B	RGT1368XA-8	NAME PLATE	26	WBB3EC-8K1K1	FLAT CABLE
(ZG)			27	WBB4EC10K1K1	FLAT CABLE
9B	RGT1368YA-8	NAME PLATE	28	WBB6EC-8K1K1	FLAT CABLE
(ZE)			29	WBB9EC-8K1K1	FLAT CABLE
9B	RGT1368ZA-8	NAME PLATE	30	RJA23YB-K	POWER CORD
(Z, ZF)			(Z, ZG, ZF, ZI)		
10	RHR185ZA	HOLDER	30	RJA87Z	POWER CORD
11 (Z, ZE, ZF)	RYMC70MKSNB	FRONT CABINET	(ZE)		
11 (ZG, ZI)	RYMC70ZGKSNB	FRONT CABINET			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
PACKING MATERIAL			P3	RPK2747ZA	CARTON BOX
P1	RPH639ZA	POLYETHYLENE COVER	ACCESSORIES		
P2	RPN5523ZA	PAD	A1	RQX5164ZA	INSTRUCTION MANUAL

# Panasonic Service

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ein Unternehmen der Matsushita Electric, Japan

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An

ERSATZTEIL - DIENST

Ihre Zeichen

Ihre Nachricht vom

Unsere Zeichen

Telefon-Durchwahl

Datum

vab/ms

(0 40) 85 49- 439

12.09.1988

Betr.: N V - M C 1 0 E G

Änderung von ET-Nummer

Bitte ändern Sie im Service Manual für NV-MC10EG :

Anhang Ersatzteil-Liste, Seite 4

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Mit freundlichen Grüßen

Panasonic Service  
Deutschland GmbH

-Ersatzteil-Wesen-

# Panasonic Service

## Deutschland GmbH

- Ersatzteilwesen -

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Modell: W V P - F 1 0

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ET-No. YFMN3741FKIT PAL VERSION

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Panasonic Service  
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31.08.1988

z. Hd. ERSATZTEILDIENTST  
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